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## Sports Sensors for Athlete Motion Tracking and Physiological Monitoring

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Deadline for manuscript  
submissions:

**1 January 2025**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue provides a timely overview of state-of-the-art sensing capabilities for sporting applications and an analysis of the data such systems generate. The papers within this collection examine the latest developments across a range of sensor types, including wearable devices and integrated smart equipment, used to measure critical internal load parameters such as heart rate, muscle oxygenation, etc. This Special Issue also covers recent innovations in external workload monitoring, from GPS tracking systems, radio frequency-based position trackers, accelerometers and gyroscopes embedded in equipment and clothing to smartphone apps utilizing device's cameras and sensors. Additionally, this Special Issue also focuses on optical systems like photocells, laser distance trackers, and video analysis to quantify biomechanics, speed, and distances covered at high resolutions.

Topics of interest include, but are not limited to:

- sport training
- GPS tracking systems
- radio frequency-based position trackers
- athlete monitoring
- athlete motion tracking
- laser distance trackers
- inertial measurement unit
- physical and physiological analysis



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**Special** Issue



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## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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